

Please add new claims 43-60 as follows:

*5*  
~~43.~~ The process according to claims ~~37~~ or ~~42~~ wherein R includes at least one functional groups selected from the group consisting of alcohol, thiol, ketone, aldehyde, ester, ether, amine, imine, amide, nitro, carboxylic acid, disulfide, carbonate, isocyanate, carbodiimide, carboalkoxy, and halogen.

*6*  
~~44.~~ The process according to claims ~~37~~ or ~~42~~ wherein R is selected from a group consisting of

- (a) hydrogen;
- (b) C<sub>1</sub>-C<sub>20</sub> alkyl;
- (c) aryl;
- (d) C<sub>1</sub>-C<sub>20</sub> alkyl substituted with one or more groups selected from the group consisting of aryl, halide, hydroxy, C<sub>1</sub>-C<sub>20</sub> alkoxy, and C<sub>2</sub>-C<sub>20</sub> alkoxy carbonyl; and
- (e) aryl substituted with one or more groups selected from the group consisting of C<sub>1</sub>-C<sub>20</sub> alkyl, aryl, hydroxyl, C<sub>1</sub>-C<sub>5</sub> alkoxy, amino, nitro, and halide.

*7*  
~~45.~~ The process according to any one of claims ~~37~~ or ~~42~~ wherein R is selected from a group consisting of hydrogen, methyl, ethyl, n-butyl, isopropyl, -CH<sub>2</sub>Cl, -CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>OH, -CH<sub>2</sub>OAc, unmodified phenyl, and a modified phenyl wherein the phenyl modification is selected from the group consisting of chloride, bromide, iodide, fluoride, -NO<sub>2</sub>, -NMe<sub>2</sub>, methoxy, and methyl.

*8*  
*46.* The process according to claim *39* wherein R<sup>11</sup> or R<sup>12</sup> includes at least one functional groups selected from the group consisting of alcohol, thiol, ketone, aldehyde, ester, ether, amine, imine, amide, nitro, carboxylic acid, disulfide, carbonate, isocyanate, carbodiimide, carboalkoxy, and halogen.

*92*  
*9*  
*47.* The process according to claim *39* wherein R<sup>11</sup> and R<sup>12</sup> are each independently selected from a group consisting of  
(a) hydrogen;  
(b) C<sub>1</sub>-C<sub>20</sub> alkyl;  
(c) aryl;  
(d) C<sub>1</sub>-C<sub>20</sub> alkyl substituted with one or more groups selected from the group consisting of aryl, halide, hydroxy, C<sub>1</sub>-C<sub>20</sub> alkoxy, and C<sub>2</sub>-C<sub>20</sub> alkoxy carbonyl; and  
(e) aryl substituted with one or more groups selected from the group consisting of C<sub>1</sub>-C<sub>20</sub> alkyl, aryl, hydroxyl, C<sub>1</sub>-C<sub>5</sub> alkoxy, amino, nitro, and halide.

*10*  
*48.* The process according to claim *39* wherein R<sup>11</sup> and R<sup>12</sup> are each independently selected from a group consisting of hydrogen, methyl, ethyl, n-butyl, iso-propyl, -CH<sub>2</sub>Cl, -CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>OH, -CH<sub>2</sub>OAc, unmodified phenyl, and a modified phenyl wherein the phenyl modification is selected from the group consisting of chloride, bromide, iodide, fluoride, -NO<sub>2</sub>, -NMe<sub>2</sub>, methoxy, and methyl.

*11*  
~~49~~. The process according to claims ~~37~~ or ~~39~~ wherein L and L<sup>1</sup> are each a phosphine of the formula PR<sup>3</sup>R<sup>4</sup>R<sup>5</sup>, wherein R<sup>3</sup> is selected from the group consisting of secondary alkyl and cycloalkyl, and R<sup>4</sup> and R<sup>5</sup> are each independently selected from the group consisting of aryl, C<sub>1</sub>-C<sub>10</sub> primary alkyl, secondary alkyl, and cycloalkyl.

*12*  
~~50~~. The process according to claims ~~37~~ or ~~39~~ wherein L and L<sup>1</sup> are each independently selected from the group consisting of -P(cyclohexyl)<sub>3</sub>, -P(cyclopentyl)<sub>3</sub>, -P(isopropyl)<sub>3</sub>, and -P(phenyl)<sub>3</sub>.

*13*  
~~51~~. The process according to claim ~~42~~ wherein L, L<sup>1</sup>, and L<sup>2</sup> are each a phosphine of the formula PR<sup>3</sup>R<sup>4</sup>R<sup>5</sup>, wherein R<sup>3</sup> is selected from the group consisting of secondary alkyl and cycloalkyl, and R<sup>4</sup> and R<sup>5</sup> are each independently selected from the group consisting of aryl, C<sub>1</sub>-C<sub>10</sub> primary alkyl, secondary alkyl, and cycloalkyl.

*14*  
~~52~~. The process according to claim ~~42~~ wherein L, L<sup>1</sup>, and L<sup>2</sup> are each independently selected from the group consisting of -P(cyclohexyl)<sub>3</sub>, -P(cyclopentyl)<sub>3</sub>, -P(isopropyl)<sub>3</sub>, and -P(phenyl)<sub>3</sub>.

*15*  
~~53.~~ The process according to any one of claims ~~37, 39, and 42~~ wherein X and X<sup>1</sup> are independently selected from the group consisting of hydrogen, halogen, unsubstituted moiety, and substituted moiety wherein the moiety is selected from a group consisting of C<sub>1</sub>-C<sub>20</sub> alkyl, aryl, C<sub>1</sub>-C<sub>20</sub> alkoxide, aryloxide, C<sub>3</sub>-C<sub>20</sub> alkyldiketonate, aryldiketonate, C<sub>1</sub>-C<sub>20</sub> carboxylate, arylsulfonate, C<sub>1</sub>-C<sub>20</sub> alkylsulfonate, C<sub>1</sub>-C<sub>20</sub> alkylthio, C<sub>1</sub>-C<sub>20</sub> alkylsulfonyl, and C<sub>1</sub>-C<sub>20</sub> alkylsulfinyl, and wherein the moiety substitution is selected from a group consisting of C<sub>1</sub>-C<sub>5</sub> alkyl, halogen, C<sub>1</sub>-C<sub>5</sub> alkoxy, unmodified phenyl, halogen substituted phenyl, C<sub>1</sub>-C<sub>5</sub> alkyl substituted phenyl, and C<sub>1</sub>-C<sub>5</sub> alkoxy substituted phenyl.

*16*  
~~54.~~ The process according to any one of claims ~~37, 39, and 42~~ wherein compound according to claim 13, wherein X and X<sup>1</sup> are independently selected from chloride, bromide, iodide, unsubstituted moiety, and substituted moiety wherein the moiety is selected from a group consisting of benzoate, C<sub>1</sub>-C<sub>5</sub> carboxylate, C<sub>1</sub>-C<sub>5</sub> alkyl, phenoxy, C<sub>1</sub>-C<sub>5</sub> alkoxy, C<sub>1</sub>-C<sub>5</sub> alkylthio, arylsulfonate, and C<sub>1</sub>-C<sub>5</sub> alkyl sulfonate, and the moiety substitution is selected from a group consisting of C<sub>1</sub>-C<sub>5</sub> alkyl, unmodified phenyl, halogen substituted phenyl, C<sub>1</sub>-C<sub>5</sub> alkyl substituted phenyl, and C<sub>1</sub>-C<sub>5</sub> alkoxy substituted phenyl.

*17*  
~~55.~~ The process according to any one of claims ~~37, 39, and 42~~ wherein X and X<sup>1</sup> are independently selected from the group consisting of chloride, CF<sub>3</sub>CO<sub>2</sub>, CH<sub>3</sub>CO<sub>2</sub>, CFH<sub>2</sub>CO<sub>2</sub>, (CH<sub>3</sub>)<sub>3</sub>CO, (CF<sub>3</sub>)<sub>2</sub>(CH<sub>3</sub>)CO, (CF<sub>3</sub>)(CH<sub>3</sub>)<sub>2</sub>CO, PhO, MeO, EtO, tosylate, mesylate, and trifluoromethanesulfonate.

*18*  
*56.* A process according to claim *38* wherein R and R<sup>1</sup> are each independently selected from the group consisting of

- (a) hydrogen;
- (b) C<sub>1</sub>-C<sub>4</sub> alkyl;
- (c) phenyl;
- (d) C<sub>1</sub>-C<sub>4</sub> alkyl substituted with one or more functional groups selected from the group consisting of halide, hydroxy, and C<sub>2</sub>-C<sub>5</sub> alkoxy carbonyl; and
- (e) phenyl substituted with one or more functional groups selected from the group consisting of C<sub>1</sub>-C<sub>5</sub> alkyl, C<sub>1</sub>-C<sub>5</sub> alkoxy, amino, nitro, and halide;

*A2*  
*Conf.*  
X and X<sup>1</sup> are each independently selected from the group consisting of Cl, CF<sub>3</sub>CO<sub>2</sub>, CH<sub>3</sub>CO<sub>2</sub>, CFH<sub>2</sub>CO<sub>2</sub>, (CH<sub>3</sub>)<sub>3</sub>CO, (CF<sub>3</sub>)<sub>2</sub>(CH<sub>3</sub>)CO, (CF<sub>3</sub>)(CH<sub>3</sub>)<sub>2</sub>CO, PhO, MeO, EtO, tosylate, mesylate, and trifluoromethanesulfonate; and,

L and L<sup>1</sup> are each independently selected from the group consisting of -P(phenyl)<sub>3</sub>, -P(cyclohexyl)<sub>3</sub>, -P(cyclopentyl)<sub>3</sub>, and -P(isopropyl)<sub>3</sub>

*19*  
*57.* The process according to claim *56* wherein  
R<sup>1</sup> is hydrogen;  
R is phenyl or a phenyl substituted at the para position with a moiety selected from a group consisting of C<sub>1</sub>-C<sub>5</sub> alkyl, C<sub>1</sub>-C<sub>5</sub> alkoxy, amino, nitro, and halide;

X and X<sup>1</sup> are both Cl; and

L and L<sup>1</sup> are both -P(cyclohexyl)<sub>3</sub>.

*20*  
58. The process according to claim *39* wherein  
R, R<sup>11</sup>, and R<sub>12</sub> are each independently selected from a group  
consisting of  
(a) hydrogen;  
(b) C<sub>1</sub>-C<sub>4</sub> alkyl;  
(c) phenyl;  
(d) C<sub>1</sub>-C<sub>4</sub> alkyl substituted with one or more functional groups  
selected from the group consisting of halide, hydroxy, and C<sub>2</sub>-  
C<sub>5</sub> alkoxy carbonyl; and  
(e) phenyl substituted with one or more functional groups  
selected from the group consisting of C<sub>1</sub>-C<sub>5</sub> alkyl, C<sub>1</sub>-C<sub>5</sub>  
alkoxy, amino, nitro, and halide;

*02*  
*Conf.*  
X and X<sup>1</sup> are each independently selected from the group consisting  
of Cl, CF<sub>3</sub>CO<sub>2</sub>, CH<sub>3</sub>CO<sub>2</sub>, CFH<sub>2</sub>CO<sub>2</sub>, (CH<sub>3</sub>)<sub>3</sub>CO, (CF<sub>3</sub>)<sub>2</sub>(CH<sub>3</sub>)CO,  
(CF<sub>3</sub>)(CH<sub>3</sub>)<sub>2</sub>CO, PhO, MeO, EtO, tosylate, mesylate, and  
trifluoromethanesulfonate; and,

L and L<sup>1</sup> are each independently selected from the group consisting of  
-P(phenyl)<sub>3</sub>, -P(cyclohexyl)<sub>3</sub>, -P(cyclopentyl)<sub>3</sub>, and -P(isopropyl)<sub>3</sub>.

*21*  
59. A process according to claim *42* wherein R and R<sup>1</sup> is selected from  
the group consisting of

(a) hydrogen;  
(b) C<sub>1</sub>-C<sub>4</sub> alkyl;  
(c) phenyl;  
(d) C<sub>1</sub>-C<sub>4</sub> alkyl substituted with one or more functional groups  
selected from the group consisting of halide, hydroxy, and C<sub>2</sub>-  
C<sub>5</sub> alkoxy carbonyl; and

(e) phenyl substituted with one or more functional groups selected from the group consisting of C<sub>1</sub>-C<sub>5</sub> alkyl, C<sub>1</sub>-C<sub>5</sub> alkoxy, amino, nitro, and halide;

X and X<sup>1</sup> are each independently selected from the group consisting of Cl, CF<sub>3</sub>CO<sub>2</sub>, CH<sub>3</sub>CO<sub>2</sub>, CFH<sub>2</sub>CO<sub>2</sub>, (CH<sub>3</sub>)<sub>3</sub>CO, (CF<sub>3</sub>)<sub>2</sub>(CH<sub>3</sub>)CO, (CF<sub>3</sub>)(CH<sub>3</sub>)<sub>2</sub>CO, PhO, MeO, EtO, tosylate, mesylate, and trifluoromethanesulfonate; and,

L, L<sup>1</sup>, and L<sup>2</sup> are each independently selected from the group consisting of -P(phenyl)<sub>3</sub>, -P(cyclohexyl)<sub>3</sub>, -P(cyclopentyl)<sub>3</sub>, and -P(isopropyl)<sub>3</sub>.

*22*  
~~60.~~ The process according to claim *50* wherein  
R<sup>1</sup> is hydrogen;

R is phenyl or a phenyl substituted at the para position with a moiety selected from a group consisting of C<sub>1</sub>-C<sub>5</sub> alkyl, C<sub>1</sub>-C<sub>5</sub> alkoxy, amino, nitro, and halide;

X and X<sup>1</sup> are both Cl; and  
L<sup>2</sup> is -P(cyclohexyl)<sub>3</sub>--

#### REMARKS

The present invention relates to ruthenium and osmium metathesis catalysts. Claims 1-42 were originally filed with the application. Claims 37 and 38 have been allowed.

As part of this response, claim 38 has been amended as to matters of form and new claims 43-60 have been added.